Monthly Progress Report

Submitted to: Mr. Frank Battaglia, Project Manager
USEPA Region I
Waste Management Building
90 Canal Street
Boston, MA 02114

Submitted by: Ms. Diane Leber, Project Coordinator
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444 Sawmill River Road
Ardsley, NY 10502

Pursuant to: RCRA I-88-1088

Facility Site: Cranston, RI

Period Covered: March 1992 (29 February 1992 – 27 March 1992)*

Date Submitted: 10 April 1992

1.0 SUMMARY

This is the twenty-first monthly progress report. Seven significant events occurred this month.

Project Management. Pre-mobilization for Phase II continued. A teleconference with CIBA-GEIGY, IT Corporation, HydroQual, and Woodward-Clyde Consultants (WCC) personnel was held on 3/17/92 to review the analytes HydroQual selected to model for the river investigation; a second teleconference on this topic was held with CIBA-GEIGY, HydroQual, and WCC personnel on 3/26/92.
Change in Plan: As discussed with the USEPA, Tinuvin 327 will not be analyzed as a fingerprint compound; Tinuvin 328 will be analyzed instead. [Section 8.0 discusses changes in the Work Plan.]

Data Management. Modification and testing of the project data base software continued.

Soil Gas Survey. Reduction of the soil gas survey data began.

Hydrological Investigation. The bathymetric survey was completed on 2/29/92; reduction of the bathymetric data began. Installation of ISCO water samplers in equipment sheds in all three reaches of the river was completed on 3/5/92; installation of other instrumentation for the river investigation (e.g., Stevens recorders, staff gauges, and pressure transducers) began on 3/6/92 and was completed on 3/13/92.

Terrestrial/Aquatic Environment Investigations. IT Corporation began the terrestrial and aquatic surveys on 3/9/92; the surveys were completed on 3/12/92.

Data Validation. Validation of Round 3 groundwater data was completed. Validation of the data for dioxin performance evaluation soil samples (provided by USEPA Region I) was completed.

*As agreed, the reporting period will be monthly through the fourth Friday of the month.

Quality Assurance. CIBA-GEIGY performed system audits of two analytical laboratories. Rhode Island Analytical was audited on 3/9/92 for their performance on total suspended solids (TSS), particulate organic carbon (POC), and total organic carbon (TOC) analyses for the river investigation, as well as for compositing surface water samples and for decontaminating surface water samplers and containers. It was determined that POC and TOC analyses should be performed elsewhere; otherwise, the results were satisfactory. The IT Corporation geotechnical laboratory was audited on 3/13/92; the results were satisfactory.

2.0 TASKS AND ACTIVITIES COMPLETED

The sampling and other activities (subtasks) that were completed are reported here.

2.1 Sampling Activities Completed

No sampling activities were conducted during this reporting period.

2.2 Other Activities Completed

The other activities (subtasks) completed during this reporting period were described in Section 1.0.

3.0 JEOPARDY TASKS (scheduled tasks not completed)

No tasks were in jeopardy as of 27 March 1992.

4.0 OTHER TASKS UNDERWAY (and on schedule)

The tasks that were underway (and on schedule as of 27 March 1992) were described in Section 1.0.

5.0 DATA OBTAINED

The analytical data for Round 3 groundwater samples, as well as for dioxin performance evaluation soil samples (provided by USEPA Region I), have been validated and loaded into the project data base; these data are presented in Attachment A. Soil gas survey data have been obtained but have not been peer reviewed.

6.0 PROBLEM AREAS

The resolved, new, potential (i.e., anticipated or possible), and outstanding (i.e., still unresolved) problem areas are reported here.

6.1 Resolved Problem Areas

No problem areas remained to be resolved during this reporting period.

6.2 New Problem Areas

No new problem areas were identified during this reporting period.

6.3 Potential Problem Areas

No potential problem areas were identified during this reporting period.

6.4 Outstanding Problem Areas

No problem areas remained unresolved during this reporting period.

7.0 SCHEDULE OF TASKS (next two months)

The projected schedule is provided here. It covers the tasks to be performed in the next two months (April and May 1992), along with other comments or considerations.

Target Date	Task#	Task	Comments/Considerations
ongoing	9	Project Management	
ongoing	10	Data Management	
ongoing	11	Project Administration	
ongoing	12	Quality Assurance	
ongoing	13	Health & Safety Assurance	

8.0 CHANGES IN WORK PLAN

One change was made to the Work Plan during this reporting period.

> ***Project Management.*** As discussed with the USEPA, Tinuvin 327 will not be analyzed as a fingerprint compound in Phase II; Tinuvin 328 will be analyzed instead. The standard for this compound has been sent to the appropriate project laboratories (PACE and Savannah), and method validation is underway.

9.0 OTHER COMMENTS

The plans going forward into April and May include:

- interpreting and peer reviewing the soil gas survey data,
- preparing bathymetric maps and establishing river transects,
- sediment sampling for analysis of physical characteristics,
- surficial soil sampling for PCB analysis, and
- additional planning for future investigations.

The following document is appended:

- Attachment A — Validated Analytical Laboratory Data for Round 3 Groundwater Samples and for Performance Evaluation Soil Samples

Attachment A

ATTACHMENT A

Validated Analytical Laboratory Data
for
Round 3 Groundwater Samples
and for
Performance Evaluation Soil Samples

CIBA-GEIGY Facility
Cranston, Rhode Island

CIBA-GEIGY/Cranston Site

APRIL 2, 1992

EXPLANATION OF ROUND 3 DATA SUMMARIES

The enclosed reports were generated using data from Round 3 records located in data base at Ardsley, NY.

ROUND 3 DATA SUMMARY; PERFORMANCE EVALUATION SAMPLES

The summary contains all records for performance evaluation samples 763XKX and P15KO8. No selection criteria based upon results or data qualifiers were used. The field for MEDIUM was unspecified in the laboratory records and so is blank.

ROUND 3 DATA SUMMARY; GROUNDWATER SAMPLES, HITS/Js

The summary contains data from records whose final data results are considered as "HITS" (Final Data is unqualified) or estimated values (Final Data Qualifier = J).

Only data reported for organic analytes and metals were selected. Records were restricted to data from Triangle Labs and Savannah Labs.

The column headed "MEDIUM" specifies either "GRNDW" (groundwater) for field samples, or "WATER" for field blanks.

The column headed "Fr ID" specifies Fraction ID. The specific codes used for Round 3 and subsequent rounds are listed in the footer. These codes are newly adopted for Round 3.

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

PERFORMANCE EVALUATION SAMPLES

MEDIUM	SAMPLE NUMBER	ANALYTE NAME	FINAL DATA	QUAL QC3	UNITS
	763XKX	1,2,3,4,6,7,8-HPCDD	.00002	U	MG/KG
		1,2,3,4,6,7,8-HPCDF	.000018	U	MG/KG
		1,2,3,4,7,8,9-HPCDF	.000025	U	MG/KG
		1,2,3,4,7,8-HXCDD	.00004	U	MG/KG
		1,2,3,4,7,8-HXCDF	.000017	U	MG/KG
		1,2,3,6,7,8-HXCDD	.000035	U	MG/KG
		1,2,3,6,7,8-HXCDF	.000015	U	MG/KG
		1,2,3,7,8,9-HXCDD	.000035	U	MG/KG
		1,2,3,7,8,9-HXCDF	.00002	U	MG/KG
		1,2,3,7,8-PECDD	.000048	U	MG/KG
		1,2,3,7,8-PECDF	.000027	U	MG/KG
		2,3,4,6,7,8-HXCDF	.000017	U	MG/KG
		2,3,4,7,8-PECDF	.000026	U	MG/KG
		2,3,7,8-TCDD	.000006	J	MG/KG
		2,3,7,8-TCDF	.000007	U	MG/KG
		HPCDD	.00002	U	MG/KG
		HPCDF	.000025	U	MG/KG
		HXCDD	.00004	U	MG/KG
		HXCDF	.00002	U	MG/KG
		OCDD	.000034	U	MG/KG
		OCDF	.000025	U	MG/KG
		PECDD	.000048	U	MG/KG
		PECDF	.000027	U	MG/KG
		TCDD	.00003	J	MG/KG
		TCDF	.000055	U	MG/KG
	P15KO8	1,2,3,4,6,7,8-HPCDD	.000017	U	MG/KG
		1,2,3,4,6,7,8-HPCDF	.000011	U	MG/KG
		1,2,3,4,7,8,9-HPCDF	.000014	U	MG/KG
		1,2,3,4,7,8-HXCDD	.000021	U	MG/KG
		1,2,3,4,7,8-HXCDF	.000012	U	MG/KG
		1,2,3,6,7,8-HXCDD	.000018	U	MG/KG
		1,2,3,6,7,8-HXCDF	.000011	U	MG/KG
		1,2,3,7,8,9-HXCDD	.000018	U	MG/KG
		1,2,3,7,8,9-HXCDF	.000014	U	MG/KG
		1,2,3,7,8-PECDD	.000055	U	MG/KG
		1,2,3,7,8-PECDF	.000017	U	MG/KG
		2,3,4,6,7,8-HXCDF	.000012	U	MG/KG
		2,3,4,7,8-PECDF	.000016	U	MG/KG
		2,3,7,8-TCDD	.000913	J	MG/KG
		2,3,7,8-TCDF	.000004	U	MG/KG
		HPCDD	.000017	U	MG/KG
		HPCDF	.000014	U	MG/KG

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

PERFORMANCE EVALUATION SAMPLES

MEDIUM	SAMPLE NUMBER	ANALYTE NAME	FINAL DATA	QUAL QC3	UNITS
	P15KO8	HXCDD	.000021	U	MG/KG
		HXCDF	.000014	U	MG/KG
		OCDD	.000057	J	MG/KG
		OCDF	.000016	U	MG/KG
		PECDD	.000055	U	MG/KG
		PECDF	.000017	U	MG/KG
		TCDD	.00495		MG/KG
		TCDF	.000077	U	MG/KG

50 records selected.

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	DUP-1*IB-3	BARIUM	1	33	UG/L	
		ETHYLBENZENE	E	12	UG/L	
		M&P-XYLENE	E	30	UG/L	
		O-XYLENE	E	9	UG/L	
		TOLUENE	E	8	UG/L	J
		3&4-METHYLPHENOL	F	21	UG/L	
		OCDD	G	.000241	UG/L	J
		TCDF	G	.000188	UG/L	J
		BARIUM	H	40	UG/L	
		CHROMIUM	H	10	UG/L	
	MW-10D*IB-3	BARIUM	1	26	UG/L	
		CHLOROBENZENE	E	1.8	UG/L	J
		OCDD	G	.000308	UG/L	J
		BARIUM	H	63	UG/L	
		CHROMIUM	H	35	UG/L	
		COPPER	H	26	UG/L	
	MW-10S*IB-3	BARIUM	1	16	UG/L	
		OCDD	G	.000304	UG/L	J
		TCDF	G	.000093	UG/L	J
		ARSENIC	H	6.8	UG/L	
		BARIUM	H	62	UG/L	
		CHROMIUM	H	37	UG/L	
		COBALT	H	12	UG/L	
		COPPER	H	32	UG/L	
	MW-11S*IB-3	BARIUM	1	13	UG/L	
		ZINC	1	490	UG/L	
		CHLOROBENZENE	E	390	UG/L	
		2-CHLOROPHENOL	F	1.7	UG/L	J
		4-CHLOROANILINE	F	.9	UG/L	J
		BIS(2-CHLOROETHYL)ETHER	F	.7	UG/L	J
		DIETHYLPHTHALATE	F	2.3	UG/L	J
		PHENOL	F	1.5	UG/L	J
		TINUVIN 327	F	.8	UG/L	J
		OCDD	G	.00026	UG/L	J
		ARSENIC	H	13	UG/L	
		BARIUM	H	17	UG/L	
		CHROMIUM	H	11	UG/L	
		ZINC	H	700	UG/L	J

'Fr ID' CODE: A=PEST.; B=O-P PEST.; C=HERB.; D,E= VOAs
F=SEMI-VOAs; G=DIOXINS/FURANS; H=METALS [TOTAL]; 1=METALS [DISSOLVED]
File Name QSUM(3)

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	MW-12D*IB-3	BARIUM	1	38	UG/L	
		ETHYLBENZENE	E	12	UG/L	
		M&P-XYLENE	E	30	UG/L	
		O-XYLENE	E	9	UG/L	
		TOLUENE	E	11	UG/L	J
		2,4-DIMETHYLPHENOL	F	.8	UG/L	J
		3&4-METHYLPHENOL	F	24	UG/L	
		BARIUM	H	39	UG/L	
	MW-12S*IB-3	ARSENIC	1	15	UG/L	
		BARIUM	1	15	UG/L	
		4,4'-DDD	A	.5	UG/L	J
		4,4'-DDE	A	.5	UG/L	J
		4,4'-DDT	A	.5	UG/L	J
		ALDRIN	A	.25	UG/L	J
		ALPHA-BHC	A	.25	UG/L	J
		ALPHA-CHLORDANE	A	.5	UG/L	J
		BETA-BHC	A	.25	UG/L	J
		CHLOROBENZILATE	A	2.5	UG/L	J
		DELTA-BHC	A	.25	UG/L	J
		DIELDRIN	A	.5	UG/L	J
		ENDOSULFAN I	A	.25	UG/L	J
		ENDOSULFAN II	A	.5	UG/L	J
		ENDOSULFAN SULFATE	A	.5	UG/L	J
		ENDRIN	A	.5	UG/L	J
		ENDRIN ALDEHYDE	A	.5	UG/L	J
		GAMMA-BHC	A	.25	UG/L	J
		GAMMA-CHLORDANE	A	.5	UG/L	J
		HEPTACHLOR	A	.25	UG/L	J
		HEPTACHLOR EPOXIDE	A	.25	UG/L	J
		ISODRIN	A	.1	UG/L	J
		KEPONE	A	.25	UG/L	J
		METHOXYCHLOR	A	2.5	UG/L	J
		PCB-1016	A	2.5	UG/L	J
		PCB-1221	A	2.5	UG/L	J
		PCB-1232	A	2.5	UG/L	J
		PCB-1242	A	2.5	UG/L	J
		PCB-1248	A	2.5	UG/L	J
		PCB-1254	A	5	UG/L	J
		PCB-1260	A	22	UG/L	J

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File Name QSUM(3)

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	MW-12S*IB-3	TOXAPHENE	A	5	UG/L	J
		ETHYLBENZENE	E	350	UG/L	
		M&P-XYLENE	E	7800	UG/L	
		O-XYLENE	E	3300	UG/L	
		TOLUENE	E	130	UG/L	
		2,4-DIMETHYLPHENOL	F	8.1	UG/L	J
		2-METHYLPHENOL	F	5.3	UG/L	J
		ACETOPHENONE	F	1.4	UG/L	J
		NAPHTHALENE	F	4	UG/L	J
		1,2,3,4,6,7,8-HPCDD	G	.000663	UG/L	J
		1,2,3,4,6,7,8-HPCDF	G	.000375	UG/L	J
		1,2,3,4,7,8-HXCDF	G	.000251	UG/L	J
		2,3,7,8-TCDF	G	.001204	UG/L	J
		HPCDD	G	.001403	UG/L	J
		HPCDF	G	.000375	UG/L	J
		HXCDF	G	.00057	UG/L	J
		OCDD	G	.005882	UG/L	J
		OCDF	G	.00034	UG/L	J
		PECDF	G	.000106	UG/L	J
		TCDF	G	.015659	UG/L	
		ARSENIC	H	9.6	UG/L	
		BARIUM	H	23	UG/L	
		CYANIDE	H	.011	MG/L	
	MW-13S*IB-3	ARSENIC	1	29	UG/L	
		BARIUM	1	68	UG/L	
		ETHYLBENZENE	E	280	UG/L	
		M&P-XYLENE	E	580	UG/L	
		O-XYLENE	E	230	UG/L	
		TOLUENE	E	14	UG/L	J
		2,4-DIMETHYLPHENOL	F	5.8	UG/L	J
		2-METHYLNAPHTHALENE	F	.7	UG/L	J
		3&4-METHYLPHENOL	F	16	UG/L	
		ACETOPHENONE	F	6.3	UG/L	J
		ANILINE	F	1.4	UG/L	J
		BIS(2-CHLOROETHYL)ETHER	F	1.8	UG/L	J
		BUTAZOLIDIN	F	8.2	UG/L	J
		FLUORANTHENE	F	.4	UG/L	J
		IRGASAN DP-300	F	6.5	UG/L	J
		NAPHTHALENE	F	.8	UG/L	J
		PHENANTHRENE	F	1	UG/L	J

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File Name QSUM(3)

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	MW-13S*IB-3	PYRENE	F	.3	UG/L	J
		TINUVIN 327	F	3	UG/L	J
		OCDD	G	.000325	UG/L	J
		ARSENIC	H	36	UG/L	
		BARIUM	H	120	UG/L	
		CHROMIUM	H	19	UG/L	
		CYANIDE	H	.12	MG/L	
	MW-14S*IB-3	ARSENIC	1	15	UG/L	
		BARIUM	1	47	UG/L	
		2,4-D	C	.8	UG/L	
		IODOMETHANE	E	630	UG/L	J
		M&P-XYLENE	E	910	UG/L	J
		TOLUENE	E	46000	UG/L	
		1,4-DICHLOROBENZENE	F	2.2	UG/L	J
		1,4-DIOXANE	F	45	UG/L	
		2,4-DICHLOROPHENOL	F	620	UG/L	J
		2,4-DIMETHYLPHENOL	F	30	UG/L	
		2-CHLOROPHENOL	F	7.1	UG/L	J
		4-CHLORO-3-METHYLPHENOL	F	23	UG/L	J
		ACETOPHENONE	F	38	UG/L	
		BUTYLBENZYLPHTHALATE	F	.6	UG/L	J
		IRGASAN DP-300	F	1500	UG/L	J
		NAPHTHALENE	F	12	UG/L	
		PHENOL	F	370	UG/L	J
		1,2,3,4,7,8-HXCDD	G	.00038	UG/L	J
		HXCDD	G	.00038	UG/L	J
		OCDD	G	.000446	UG/L	J
		ARSENIC	H	23	UG/L	
		BARIUM	H	170	UG/L	
		CHROMIUM	H	58	UG/L	
		COBALT	H	27	UG/L	
		COPPER	H	52	UG/L	
		NICKEL	H	65	UG/L	
		VANADIUM	H	65	UG/L	
	MW-15D*IB-3	1,2,3,4,6,7,8-HPCDF	G	.000078	UG/L	J
		HPCDF	G	.000078	UG/L	J
		TCDF	G	.000119	UG/L	J
	MW-15S*IB-3	OCDD	G	.000303	UG/L	J

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File Name QSUM(3)

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	MW-15S*IB-3	OCDF	G	.000201	UG/L	J
		TCDF	G	.003439	UG/L	J
	MW-16D*IB-3	BARIUM	1	92	UG/L	
		CADMIUM	1	6.5	UG/L	
		CHROMIUM	1	12	UG/L	
		OCDD	G	.000423	UG/L	J
		OCDF	G	.003424	UG/L	J
		BARIUM	H	69	UG/L	
		CHROMIUM	H	12	UG/L	
	MW-16S*IB-3	BARIUM	1	18	UG/L	
		BIS(2-ETHYLHEXYL)PHTHALATE	F	7.3	UG/L	J
		OCDD	G	.000533	UG/L	J
		TCDF	G	.00007	UG/L	J
		ARSENIC	H	6	UG/L	
		BARIUM	H	64	UG/L	
		CHROMIUM	H	150	UG/L	
		NICKEL	H	90	UG/L	
	MW-17D*IB-3	ARSENIC	1	20	UG/L	
		BARIUM	1	45	UG/L	
		DI-N-BUTYLPHTHALATE	F	.7	UG/L	J
		ARSENIC	H	22	UG/L	
		BARIUM	H	96	UG/L	
		CHROMIUM	H	17	UG/L	
		COBALT	H	11	UG/L	
		VANADIUM	H	22	UG/L	
	MW-17S*IB-3	BARIUM	1	38	UG/L	
		1,1,1-TRICHLOROETHANE	E	2.9	UG/L	J
		ARSENIC	H	38	UG/L	
		BARIUM	H	99	UG/L	
		CHROMIUM	H	25	UG/L	
		COBALT	H	11	UG/L	
		VANADIUM	H	14	UG/L	
	MW-18S*IB-3	BARIUM	1	54	UG/L	
		NICKEL	1	410	UG/L	
		ZINC	1	28	UG/L	

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File Name QSUM(3)

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	MW-18S*IB-3	TCDD	G	.019588	UG/L	
		ARSENIC	H	20	UG/L	
		BARIUM	H	150	UG/L	
		CHROMIUM	H	2000	UG/L	
		COBALT	H	16	UG/L	
		COPPER	H	47	UG/L	
		NICKEL	H	530	UG/L	
		VANADIUM	H	29	UG/L	
	MW-19S*IB-3	BARIUM	1	13	UG/L	
		CHLOROBENZENE	E	2.1	UG/L	J
		OCDD	G	.000642	UG/L	J
		ARSENIC	H	6.9	UG/L	
		BARIUM	H	110	UG/L	
		CHROMIUM	H	77	UG/L	
		COBALT	H	15	UG/L	
		COPPER	H	39	UG/L	
		NICKEL	H	74	UG/L	
		VANADIUM	H	32	UG/L	
	MW-1D*IB-3	ARSENIC	1	6.5	UG/L	
		BARIUM	1	16	UG/L	
		ZINC	1	23	UG/L	
		ARSENIC	H	8.9	UG/L	
		BARIUM	H	17	UG/L	
		COBALT	H	15	UG/L	
	MW-1S*IB-3	BARIUM	1	110	UG/L	
		4,4'-DDE	A	.3	UG/L	J
		HEPTACHLOR	A	.19	UG/L	
		CHLOROBENZENE	E	18000	UG/L	
		M&P-XYLENE	E	340	UG/L	J
		1,2-DICHLOROBENZENE	F	3.8	UG/L	J
		1,3-DICHLOROBENZENE	F	.88	UG/L	J
		1,4-DICHLOROBENZENE	F	1.6	UG/L	J
		1,4-DIOXANE	F	2.4	UG/L	J
		2,4-DICHLOROPHENOL	F	1.4	UG/L	J
		2,4-DIMETHYLPHENOL	F	4.7	UG/L	J
		2-CHLOROPHENOL	F	86	UG/L	
		2-METHYLNAPHTHALENE	F	1.2	UG/L	J
		2-METHYLPHENOL	F	.73	UG/L	J

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File Name QSUM(3)

CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	MW-1S*IB-3	3&4-METHYLPHENOL	F	2.2	UG/L	J
		ACETOPHENONE	F	2.1	UG/L	J
		BUTAZOLIDIN	F	8.2	UG/L	J
		NAPHTHALENE	F	9.5	UG/L	J
		PHENOL	F	16	UG/L	
		OCDD	G	.000356	UG/L	J
		ARSENIC	H	6.5	UG/L	
		BARIUM	H	110	UG/L	
		CHROMIUM	H	11	UG/L	
	MW-2S*IB-3	ARSENIC	1	32	UG/L	
		BARIUM	1	220	UG/L	
		SULFOTEPP	B	.82	UG/L	
		CHLOROBENZENE	E	4200	UG/L	
		1,2-DICHLOROBENZENE	F	47	UG/L	
		2,4-DIMETHYLPHENOL	F	8.9	UG/L	J
		2-CHLOROPHENOL	F	35	UG/L	
		2-METHYLNAPHTHALENE	F	.6	UG/L	J
		2-METHYLPHENOL	F	4.9	UG/L	J
		3&4-METHYLPHENOL	F	38	UG/L	
		4-CHLORO-3-METHYLPHENOL	F	26	UG/L	
		BUTAZOLIDIN	F	19	UG/L	J
		DI-N-BUTYLPHTHALATE	F	2.4	UG/L	J
		FLUORANTHENE	F	.3	UG/L	J
		NAPHTHALENE	F	12	UG/L	
		PHENANTHRENE	F	.9	UG/L	J
		PHENOL	F	15	UG/L	
		PYRENE	F	.2	UG/L	J
		OCDD	G	.000328	UG/L	J
		ANTIMONY	H	31	UG/L	
		ARSENIC	H	21	UG/L	
		BARIUM	H	280	UG/L	
		CYANIDE	H	.033	MG/L	
		ZINC	H	820	UG/L	
	MW-3S*IB-3	ARSENIC	1	32	UG/L	
		BARIUM	1	34	UG/L	
		CHLOROBENZENE	E	3.4	UG/L	J
		FLUORANTHENE	F	9.2	UG/L	J
		PYRENE	F	8.1	UG/L	J
		OCDD	G	.001112	UG/L	J

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CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	MW-3S*IB-3	TCDF	G	.001726	UG/L	J
		ARSENIC	H	37	UG/L	
		BARIUM	H	56	UG/L	
		CHROMIUM	H	36	UG/L	
	MW-4S*IB-3	ARSENIC	1	13	UG/L	
		BARIUM	1	40	UG/L	
		M&P-XYLENE	E	950	UG/L	
		O-XYLENE	E	400	UG/L	
		TOLUENE	E	20000	UG/L	
		1,2-DICHLOROBENZENE	F	32	UG/L	
		2,4-DICHLOROPHENOL	F	20	UG/L	
		2,4-DIMETHYLPHENOL	F	12	UG/L	
		2-CHLOROPHENOL	F	3.6	UG/L	J
		2-METHYLPHENOL	F	45	UG/L	
		3&4-METHYLPHENOL	F	32	UG/L	
		4-CHLORO-3-METHYLPHENOL	F	16	UG/L	
		ACETOPHENONE	F	7.1	UG/L	J
		BIS(2-ETHYLHEXYL)PHTHALATE	F	1.3	UG/L	J
		IRGASAN DP-300	F	15	UG/L	J
		NAPHTHALENE	F	5.4	UG/L	J
		PHENOL	F	8.5	UG/L	J
		OCDD	G	.007705	UG/L	J
		BARIUM	H	47	UG/L	
	MW-6S*IB-3	BARIUM	1	44	UG/L	
		ZINC	1	93	UG/L	
		DIETHYLPHTHALATE	F	.7	UG/L	J
		PROPAZINE	F	16	UG/L	J
		BARIUM	H	46	UG/L	
	MW-7S*IB-3	ARSENIC	1	7.8	UG/L	
		BARIUM	1	55	UG/L	
		CHLOROBENZILATE	A	.5	UG/L	
		OCDD	G	.00032	UG/L	J
		TCDD	G	.000065	UG/L	J
		TCDF	G	.000042	UG/L	J
		ARSENIC	H	26	UG/L	
		BARIUM	H	67	UG/L	
		CHROMIUM	H	15	UG/L	

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CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	MW-8S*IB-3	OCDD	G	.001693	UG/L	J
	MW-DUP2*IB-3	ARSENIC	1	12	UG/L	
		BARIUM	1	13	UG/L	
		ETHYLBENZENE	E	610	UG/L	
		M&P-XYLENE	E	7600	UG/L	
		O-XYLENE	E	3400	UG/L	
		2,4-DIMETHYLPHENOL	F	12	UG/L	
		2-METHYLPHENOL	F	8.5	UG/L	J
		ACETOPHENONE	F	2.1	UG/L	J
		BIS(2-ETHYLHEXYL)PHTHALATE	F	8.6	UG/L	J
		BUTYLBENZYLPHTHALATE	F	.5	UG/L	J
		IRGASAN DP-300	F	1	UG/L	J
		NAPHTHALENE	F	9	UG/L	J
		1,2,3,4,6,7,8-HPCDD	G	.000366	UG/L	J
		1,2,3,4,6,7,8-HPCDF	G	.000219	UG/L	J
		1,2,3,4,7,8-HXCDF	G	.000146	UG/L	J
		2,3,7,8-TCDF	G	.000745	UG/L	J
		HPCDD	G	.000769	UG/L	J
		HPCDF	G	.000219	UG/L	J
		HXCDF	G	.000146	UG/L	J
		OCDD	G	.00383	UG/L	J
		OCDF	G	.000359	UG/L	J
		TCDF	G	.00943	UG/L	J
		ARSENIC	H	5.3	UG/L	
		BARIUM	H	21	UG/L	
		CYANIDE	H	.014	MG/L	
	RW-1*IB-3	BARIUM	1	15	UG/L	
		CHLOROBENZENE	E	4.2	UG/L	J
		OCDD	G	.000426	UG/L	J
		BARIUM	H	48	UG/L	
	RW-2*IB-3	1,2,3,4,6,7,8-HPCDF	G	.000062	UG/L	J
		HPCDF	G	.00062	UG/L	J
		OCDD	G	.000986	UG/L	J
		OCDF	G	.000138	UG/L	J
	RW-3*IB-3	BARIUM	1	260	UG/L	
		CADMIUM	1	17	UG/L	
		PYRENE	F	.6	UG/L	J

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CIBA-GEIGY/Cranston Site

ROUND 3 DATA SUMMARY

GROUNDWATER SAMPLES, HITS/Js

Medium	Sample Number	Analyte Name	Fr ID	Final Data	Units	Qual QC3
GRNDW	RW-3*IB-3	PECDD	G	.000444	UG/L	J
		BARIUM	H	260	UG/L	
		CHROMIUM	H	51	UG/L	
	RW-4*IB-3	ARSENIC	1	8.6	UG/L	
		BARIUM	1	25	UG/L	
		ZINC	1	43	UG/L	
		OCDD	G	.000361	UG/L	J
		BARIUM	H	39	UG/L	
		CHROMIUM	H	13	UG/L	
		NICKEL	H	50	UG/L	
		ZINC	H	190	UG/L	
WATER	FB-9-11*IB-3	TRICHLOROFLUOROMETHANE	E	10	UG/L	J
		VINYL ACETATE	E	10	UG/L	J
		DIETHYLPHTHALATE	F	.7	UG/L	J
		ZINC	H	40	UG/L	J
	FB-9-17*IB-3	OCDD	G	.000552	UG/L	J
	TB-9-16*IB-3	TOLUENE	E	3.4	UG/L	J

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359 records selected.